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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,438	07/17/2003	Ryo Horie	040894-5943	1093
9629 7	590 11/18/2005		EXAMINER	
MORGAN LEWIS & BOCKIUS LLP			WIMER, MICHAEL C	
1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004			ART UNIT	PAPER NUMBER
	.,		2828	
			DATE MAILED: 11/18/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		$\mathcal{M}$			
	Application No.	Applicant(s)			
	10/620,438	HORIE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Michael C. Wimer	2828			
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet wit	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC  .136(a). In no event, however, may a re d will apply and will expire SIX (6) MONT tte, cause the application to become ABA	CATION.  ply be timely filed  I'HS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 10/	<u>11/2005</u> .				
2a) This action is <b>FINAL</b> . 2b) ⊠ Th	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allow	ance except for formal matte	ers, prosecution as to the merits is			
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-4 is/are pending in the application	J.				
4a) Of the above claim(s) is/are withdr	awn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-4</u> is/are rejected.					
7) Claim(s) is/are objected to.		•			
8) Claim(s) are subject to restriction and	or election requirement.				
Application Papers					
9) The specification is objected to by the Examir	ner.	•			
10)☐ The drawing(s) filed on is/are: a)☐ ac	•	-			
Applicant may not request that any objection to th	• • • • • • • • • • • • • • • • • • • •	` ,			
Replacement drawing sheet(s) including the corre	•	• • •			
11) The oath or declaration is objected to by the B	examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:	gn priority under 35 U.S.C. §	119(a)-(d) or (f).			
<ol> <li>Certified copies of the priority document</li> </ol>	nts have been received.				
2. Certified copies of the priority docume	nts have been received in Ap	oplication No			
3. Copies of the certified copies of the pri	•	received in this National Stage			
application from the International Bure					
* See the attached detailed Office action for a lis	st of the certified copies not r	eceived.			
Attachment(s)	_				
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413) )/Mail Date			
2) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0-Paper No(s)/Mail Date		formal Patent Application (PTO-152)			

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1,2 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Tsuru et al. (5969680).

Regarding Claims 1,2 and 4, Tsuru et al., show in Figures 9A,9B,10A,10B and 11A, an antenna comprising a dielectric body 53a, a ground electrode 67a (see Fig. 2 for the top portion of the substrate 53a and the feeding portion structure), a radiation electrode 56a (51b) having a first open end and a second end which is (capacitively) connected to the ground electrode (C2 in Fig. 10A), a feeding terminal 66 provided on the first surface (Fig. 2) and a feeding electrode 52 having a first end 67b connected to and directly contacts the feeding terminal and a second end 52e which is connected to and directly contacts ground electrode 67a, at least a first part 52a of the feeding electrode 52 extending in parallel with an elongated direction of the radiation electrode 56a, so as to excite the radiation electrode with an induction coupling and capacitive coupling (defined within the term electromagnetically coupled, Fig. 9A,9B and 11A, col. 10, lines 58-62), all arranged as claimed.

Claim Rejections - 35 USC § 103

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3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tsuru et al. (5969680) in view of Tsubaki (6100849).

No resonance condition specifically naming the feeding electrode 52 having a quarter wavelength appears to be taught. However, such a length for the feeding electrode is implied when an electromagnetic wave is formed along the length thereof. Thus, Tsubaki is cited as evidence of obviousness and as resolving the level of ordinary skill in the antenna art, and teaches that the feeding electrode 13 is of a quarter wavelength long and feeds the radiation electrode 14 (see the paragraph bridging columns 6 and 7). It would have been obvious to the skilled artisan that the feeding electrode 52 in Tsuru et al. is required to be of this length taught by Tsubaki.

## Response to Arguments

- 5. Applicant's arguments with respect to claims 1-4 have been considered but are most in view of the new ground(s) of rejection.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Wimer whose telephone number is (571) 272-1833. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minsun O. Harvey can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael C. Wimer Primary Examiner Art Unit 2828

**MCW** 

11/8/2005